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*File Contract
605 T.B.S.*

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(IN TRIPLICATE)

6 July 1960

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JUST <u>22</u>	NEXT REV <u>2010</u>	AUTH: HR 70-2

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Attention:

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Subject: Progress Reports,
Submission of

Enclosure: (A) Progress Reports for
the month of June, in
quadruplicate

Gentlemen:

Pursuant to the terms and provisions of the applicable task orders, the contractor submits Enclosure (A), described above, detailing the progress achieved during the month of June 1960.

In the event further information is desired concerning the enclosed reports, do not hesitate to contact the writer.

Very truly yours,

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Contract Administrator

NKG:dw

cc:

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THIS DOCUMENT CONTAINS INFORMATION AFFECT-
ING THE NATIONAL DEFENSE OF THE UNITED STATES
WITHIN THE MEANING OF THE ESPIONAGE LAWS,
TITLE 18, U. S. C., SECTIONS 793 AND 794. ITS
TRANSMISSION OR THE REVELATION OF ITS CON-
TENTS IN ANY MANNER TO AN UNAUTHORIZED
PERSON IS PROHIBITED BY LAW.

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File
V.O. 8 405
CJR

PROGRESS REPORT
FOR
MONTH OF JUNE 1960

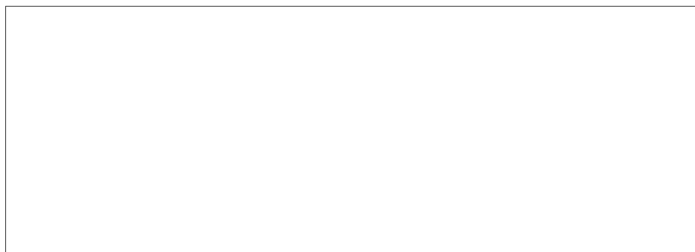
BROADBAND ANTENNA, FILTER AND DETECTOR SYSTEMS

Purpose: To develop a system of antennas, filters and detectors for the
50 mc to 40,000 mc frequency range.

Personnel: Electrical Engineers:

Mechanical Engineer:

Mathematician:



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Status: A new 50 mc to 500 mc antenna is being constructed using a wire braid outline of the original artwork solid teeth. The braid is stitched onto hardweave cotton shirtcloth. The cloth was treated prior to sewing for fungus according to military specifications.

Testing has continued on the 10,000 mc to 40,000 mc horn antenna, detector, and dielectric waveguide inserts. A horn on which the manufacturing tolerance has been tightened is being constructed in an effort to reduce or eliminate some of the asymmetries previously present.

Computations have continued on the filter synthesis program. An engineering model of a filter with the required passband skirts should be under construction during the next period.

Future Plans: Work in all phases will continue.

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**PROGRESS REPORT
FOR
MONTH OF JUNE 1960**

*File Contract
233-1100-0
CSR*

UNIDIRECTIONAL LOG PERIODIC ANTENNA 500 - 10,000 MC

Purpose: To develop and fabricate 25 antennas covering the frequency range of 500 to 10,000 mc.

Personnel: Electrical Engineer:

Mechanical Engineer:

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Status: All antennas have been delivered. Typical performance data is being compiled.

Future Plans: This project will be closed.

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